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commercial, to justify a renewal of Antarctic research; and I feel assured that nothing could bring to us greater distinction in the eyes of the whole civilized world than such an expedition, judiciously planned, and skilfully carried out.

THE USE OF OIL.

MASTERS of vessels cannot be reminded too often of the use of oil in stormy weather. Its importance is well illustrated by the fact that it is now referred to at length in standard books on seamanship; and the International Marine Conference at Washington recommended that "the several governments require all their sea-going vessels to carry a sufficient quantity of animal or vegetable oil for the purpose of calming the sea in rough weather, together with suitable means for applying it." As a good example of the directions that are now given for the best way to use oil, the remarks in a recently published book on practical seamanship, by Todd and Whall, printed on the "Atlantic Pilot Chart" for October, are of interest:—

"To cross a bar in heavy weather, after battening down all hatches, etc., take two pieces of India-rubber pipe about twenty feet long and one inch in diameter. Put these through the hawse-pipes, one on each side, and let their ends trail in the sea. On the upper end of each piece of tube lash a good-sized funnel, secure it to a stanchion in a vertical position, and station a man at each, with a three-gallon tin of colza-oil. When the vessel enters the outermost sea that breaks on the bar, let each man gently pour the oil down the pipes. This will smooth the bar immensely, and the vessel will steer much better. Almost any oil of animal or vegetable origin will do; but petroleum is not of much service, excepting to mix with and thin the other, if necessary. When lying to in a gale, head to wind and drifting slowly, if a little oil is used, a ship ought to pull through the heaviest storm. Running in a gale, an oil-bag hung over the weather-side, or oil poured down a pipe well forward, is of great service in preventing the sea from breaking aboard; gale increasing, to round-to, prepare a sea anchor, watch for a smooth spell, and then put the helm down, heave overboard a few gallons of oil, and float the sea-anchor. Keep pouring the oil on the sea down a weather pipe or scupper while the ship is coming up to the wind. A well-equipped sailing-ship, even if deeply laden, will lie to under a closely reefed topsail or tarpaulin in the rigging, and weather almost any gale, so long as she is not taken aback. Sailing-vessels under these circumstances nowadays often use an oil-bag paid out to windward to smooth the sea still more: this is the ideal position of a laden vessel in a dangerous storm. Whilst towing a disabled ship over a bar, or where the sea is very wicked, a couple of oil-bags over the stern will ease the sea on the tow. In a good steamer, to take a shipwrecked crew off a wreck, run to windward of the wreck, lower the lee boat, put your vessel head to sea and dead to windward, and let the boat drop down toward the wreck, veering out on the line, and constantly pouring considerable oil into the sea, which will keep the sea smooth between your ship and the wreck. In using oil-bags in heavy weather, they should be weighted, if hung over the side, in order to keep them down. When scudding, it is best to pour the oil down the closet-pipes."

NOTES AND NEWS.

WE learn from *Nature* that an expedition to Greenland will start from Denmark next year, under the command of Lieut. Ryder, to investigate the east coast between latitude 66° and 73°.

—At a meeting of the Royal Geographical Society of Australasia, held at Melbourne on Aug. 22, a letter from Sir Thomas Elder was read, in which he offered to bear the entire cost of an expedition to the unexplored regions of Australia. A report on the question of antarctic exploration was also submitted to the meeting. In this report, according to *Nature* of Oct. 9, it was stated that public interest in the subject had been revived by the announcement that Baron A. E. Nordenskiöld, after a conference with his friend Baron Oscar Dickson, had consented to take the

command of an expedition to the south-polar regions, on the condition that the Australian colonies contributed a sum of \$25,000 towards the expenses. Baron Dickson having offered to advance the other moiety, or whatever more might be necessary. "The offers were cordially accepted, and the antarctic committee felt itself justified in making the necessary arrangements without delay for collecting the amount to be contributed by the Australasian colonies. The council of the society had passed resolutions recognizing a national duty in the exploration of the antarctic regions, especially that portion lying opposite to Australasia, pledging itself to use its influence in promoting the enterprise, and giving authority to head a subscription list in aid of the Swedish Australian Exploration Fund with a donation of \$1,000 from the society's funds. It would appear, from the hearty reception accorded to the proposals of the antarctic committee, that the latter might rely upon the energetic co-operation of all the scientific societies of Australasia, and thus be enabled to collect the amount of the contribution promised towards defraying the expenses of the combined Swedish and Australian Exploring Expedition to the South Polar Regions." The report, on being put to the meeting, was "received with acclamation."

—Mr. Robert Swordy of Dryburn Cottage, Durham, in a letter to *Nature*, the substance of which was printed in that journal for Oct. 9, gives an account of a toad (*Bufo vulgaris*) which he saw crawling out of the Pond Wood at Aykleyheads. The muscles of the toad's body were (as usual) arranged in such a fashion that the back of the toad looked like minute nodules of dark gravel embedded in a damp path below trees; but what seemed to Mr. Swordy most remarkable was, that on the top of this gravel-like arrangement of muscles there was spread a mesh or network of very fine lichen, with oval-shaped leaves of a lightish-green color, connected more or less to each other by a hair-like process of stems. This lichen spread irregularly over the toad's back, and odd sprays of it were also to be seen on the legs and upper surfaces of the feet. "Now," says the writer, "had the toad been in its regular haunts under the trees and shrubs, with this wonderful counterfeit of gravel and protective coloring, it would have been almost impossible to discriminate its form from the dark gravel, lichens, moss, wood-sorrel, and dead leaves of the place; and I doubt not that this animal's unobtrusive attire would aid it materially in capturing the insects necessary for its sustenance." Mr. Swordy enclosed photographs of the toad sitting on a section of lichen-colored gravel path, taken from near the spot where he found it.

—The following newspaper anecdote will interest those fond of animals: "A friend of the writer owns a monkey, which answers to the name of 'Jocko.' The children of the house and Jocko are boon companions, and of a summer afternoon enjoy a frolic together upon the lawn. One day some one threw a match down, and the grass ignited, making a little blaze. Jocko saw it, stopped and looked, then glanced all around, and, seeing a piece of plank not far off, ran for it, crept cautiously to the fire, all the time holding the plank as a shield between himself and the flame, then threw the plank on the fire and pressed it down and extinguished it. What child could have reasoned better and done more? Although, perhaps, no danger could have come from the fire, still, no one knows what the result might have been, and the monkey evidently believed that prudence is the better part of valor."

—The students' work in psychology at the University of Toronto, as reported by Professor J. Mark Baldwin in the last number of *The American Journal of Psychology*, has been hitherto general and theoretical. The new curriculum, however, as now ratified by the university senate, provides for more special and advanced courses, and opportunity for research. The recent fire in University College postponed the equipment of the psychological laboratory, but in the plans for the new buildings more ample accommodations are secured. The new laboratory is to be in the restored building in a retired portion of the first floor immediately over the rooms of the physical department. It will comprise two communicating working rooms, each 16 by 21 feet; a professor's private room, to be used also as a special psychological library under charge of a fellow or instructor; and a dark room available